

Manitoba Summer School

WINNIPEG, MANITOBA

TWENTY-FIRST ANNUAL SESSION

*Conducted under the auspices of the
University of Manitoba
and the
Department of Education of Manitoba*



Announcement of Courses

To be offered at

MANITOBA AGRICULTURAL COLLEGE

During July and August, 1932

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During July and August, 1932

Registration July 2nd.

Classes begin 8.30 a.m., July 4th.

CALENDAR

1932

JANUARY

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MANITOBA SUMMER SCHOOL, 1932

HISTORICAL SKETCH

The Manitoba Summer School had its humble beginning in a summer class conducted in the Carlton School, Winnipeg, in 1910 by Mr. W. J. Warters, supervisor of manual training in the Winnipeg schools. Nineteen students received instruction in fretsaw and other light woodwork and in raffia and rattan work. In 1911 twenty-one students were in attendance.

In 1912 the activities of the school were carried on in the Kelvin Technical High School and the programme was extended to cover the manual training programme generally of the elementary school, and dress-making as well. At the same time a class in Nature Study under the direction of Mr. H. W. Watson and Dr. C. J. Triggerson was added. The attendance in the initial year of the enlarged programme was about seventy and by 1915 this had grown to one hundred.

In 1916 a class for the instruction of teachers in schools containing a considerable proportion of pupils of non-English parentage was opened in the Strathcona School under Mr. W. J. Sisler. About forty students enrolled in this class. In the same year instruction in playground direction was given both at the Strathcona and the Kelvin Schools.

The programme thus elaborated was carried on during the two summers following, until in 1919, when Mr. C. K. Newcombe, B.A., LL.B., Supt. of Education for Manitoba, arranged for the transfer to the Manitoba Agricultural College with Mr. W. J. Warters as Director and Mr. D. S. Woods as Associate Director. At this time a review course in Chemistry of Grade XI under Mr. E. Knapp was added and in the following year courses in Primary and Intermediate Methods, Music and Drawing, and in Sewing and Millinery were introduced. The attendance in 1919 was seventy and in 1920, one hundred and ten. Mr. D. S. Woods was made Director in 1920.

The year 1921 marks the beginning of real expansion in the work of the Summer School for in that year, for the first time, courses in Chemistry and Physics of Grade XII under Professors Geddes and Lee were offered, and for the first time, too, courses were given in connection with the examination for First Class Professional Certificates. The attendance in 1921 was 240; in 1922, 300; in 1923, 350.

Simultaneously with the Summer School at Manitoba Agricultural College in 1923, classes in University subjects of the First and Second Years in Arts and Science were held at the University Arts buildings in Winnipeg with an attendance of 85. This School was organized and directed by Dean Tier and was the initial venture of the University of Manitoba itself in the field of summer school instruction, except for a summer course for returned soldiers conducted in 1919 under the direction of Professor N. B. MacLean, which enrolled 125 students, and a further course for some fifty returned men in the summer of 1920, supplementing the work done in this direction during the preceding winter season by Mr. E. Burgess.

In 1924 another forward step was taken and it was decided to merge in one organization and one programme the Summer Schools of the Department of Education and of the University. Mr. R. B. Vaughan, Director of Technical Education for the Department of Education, became Secretary of a Joint Advisory Committee, Mr. D. S. Woods.

Director of the School, and Dean Tier, of the University Faculty of Arts and Science, Dean of its Faculty. As a result of this consolidation it was possible to strengthen and enlarge the programme of instruction and for the first time to impose a definite scale of tuition fees. From this time forward the growth of the School has been steady and gratifying. The enrolment in successive years has been as follows: 1924, 466; 1925, 561; 1926, 648; 1927, 774; 1928, 751; 1929, 867; 1930, 887; 1931, 1009. In 1926, Mr. H. G. Mingay, Registrar of the Department of Education, succeeded Mr. Vaughan as Secretary of the Committee.

In 1922 a special lecture course on topics of pedagogic interest was inaugurated. Noonday addresses were given weekly in the dining-hall. In 1923 such addresses were given weekly in the evening in one of the lecture halls. In 1924, 1925, 1926, 1927, 1928, 1929 and 1930 a special two weeks' course was given by Dr. M. E. Hagarty, Dr. R. L. Finney, Dr. M. S. Pittman, Professor W. J. Alexander, Professor Chester Martin and Professor Edward Davison, Professor Wilkinson and Professor Leppard respectively.

During the Session of 1930 a course in Education, leading to the degree of Master of Arts was offered. Sixteen students were enrolled in the classes of 1930 and twenty-five in those of 1931. Dr. Peter Sandiford, Professor of Education in the University of Toronto, conducted two of the six courses offered at the Session of 1931.

SUMMER SCHOOL ALMANAC, 1932

- Jan. 1—Application by mail for classes in subjects of the Senior Division in Arts and Science.
- April 8—Summer School Reunion Dance, Wednesday of Easter Week.
- June 1—Final Announcement of Courses Offered.
- 1-27—Students may register and pay fees at Dean Tier's Office in the University of Manitoba.
- July 2—Registration for Summer School Classes at the Agricultural College, 8 a.m.-6 p.m.
- 4—Lectures in all classes begin.
- 5—Meeting of retiring Social Committee.
- 6—Election of representatives to the Social Committee.
- 7—First meeting of the incoming Social Committee at 4.30 p.m.
- 8—Reception in the Auditorium.
- 15—Social Evening in the Auditorium at 8 p.m.
- 25—Second Term commences.
- 29—Close of four-week Lecture Courses; Social Evening at 8 p.m.
- Aug. 5—Social Evening in the Auditorium at 8 p.m.
- 12—Final Examinations begin.
- 13—Examinations close.
- 17—Last day for receiving examination returns.
- 19—Meeting of the Advisory Committee at 2 p.m.

OFFICERS OF ADMINISTRATION

JAMES A. MACLEAN, Ph.D., LL.D.
President, University of Manitoba

ROBERT FLETCHER, B.A., LL.D.
Deputy Minister of Education

D. S. WOODS, M.A.
Director of Summer School

W. TIER, M.A.
Dean of Faculty

H. G. MINGAY, M.A.
Registrar, Department of Education

ADVISORY COMMITTEE ON SUMMER SCHOOL

ROBERT FLETCHER, B.A., LL.D. (Chairman)
Deputy Minister of Education

MOST REV. S. P. MATHESON, D.D., D.C.L.
Chancellor, University of Manitoba

JAMES A. MACLEAN, Ph.D., LL.D.
President, University of Manitoba

W. C. McKILICAN, B.S.A.
Dean, Faculty of Agriculture, University of Manitoba

W. A. McINTYRE, B.A., LL.D.
Principal, Provincial Normal School

D. S. WOODS, M.A.
Inspector of Schools

WILLIAM TIER, M.A.
Dean, Faculty of Arts and Science, University of Manitoba

W. J. SPENCE, B.A., LL.D.
Registrar, University of Manitoba

G. A. SPROULE, B.A.
Registrar, Manitoba Agricultural College

A. A. HERRIOT, B.A.
Inspector of Schools

H. G. MINGAY, M.A. (Secretary)
Registrar, Department of Education

SUMMER SCHOOL STAFF, 1931

Director—D. S. WOODS, M.A.*Dean of Faculty*—W. TIER, M.A.*Student Deans*—MISS JEAN MILLAR, T. EMMERSON, J. J. JACKSON

| | |
|----------------------------------|--------------------------|
| W. T. ALLISON, M.A., Ph.D. | English |
| O. T. ANDERSON, M.A., B.Sc. | Mathematics |
| W. A. ANDERSON, M.A., M.Sc. | Physics |
| H. P. ARMES, Ph.D. | Chemistry |
| MISS C. A. BALLU, M.A. | French |
| G. W. BARTLETT, M.A. | First Class Professional |
| W. B. BEER | First Class Professional |
| MISS M. M. BROOKER, M.A. | First Class Professional |
| F. W. CLARK, M.A., Ph.D. | Latin |
| J. F. CROSS, M.A. | Mathematics |
| W. A. COWPERTHWAIT, M.A. | First Class Professional |
| MRS. C. A. DEMPSEY, A.T.C.M. | Music |
| J. A. S. GARDNER, B.A. | Latin |
| W. F. GEDDES, M.Sc., Ph.D. | Chemistry |
| B. J. HALES, B.Sc., LL.B. | First Class Professional |
| MISS AGNES HAMMELL, B.A. | Art |
| J. H. HEINZELMANN, M.A., Ph.D. | German |
| A. W. HOOPER, B.A. | First Class Professional |
| A. H. HOOLE, B.A. | French |
| JOSEPH E. HOWE, M.A. | History |
| SKULI JOHNSON, M.A. | Latin |
| C. W. LOWE, M.Sc. | Botany |
| A. R. M. LOWER, M.A., Ph.D. | History |
| ANDREW MOORE, B.A., B.Sc., LL.B. | First Class Professional |
| R. O. MACFARLANE, M.A. | History |
| R. K. MCCLUNG, M.A., D.Sc. | Physics |
| LORNE A. MCINTYRE, M.A. | English |
| HERBERT MCINTOSH, M.A. | First Class Professional |
| W. A. MCINTYRE, B.A., LL.D. | First Class Professional |
| MRS. JOHN MENZIES | English |
| T. H. MILNE, M.A. | Mathematics |
| A. J. PERRY, M.A. | English |
| A. L. PHELPS, M.A. | English |
| MISS BERTHA PILLING | Methods |
| M. E. J. RICHARD, M.A. | French |
| W. F. RIDDELL, M.Sc. | Mechanics |
| H. E. RITER, M.A. | First Class Professional |
| PETER SANDIFORD, M.A., Ph.D. | M.A. in Education |
| MISS PEARL SPARLING, B.L.I. | Speech Arts |
| R. M. STEVENSON, B.A. | M.A. in Education |
| R. A. WARDLE, M.Sc. | Zoology |
| L. A. H. WARREN, M.A., Ph.D. | Astronomy |
| H. W. WRIGHT, M.A., Ph.D. | Psychology |
| D. S. WOODS, M.A. | M.A. in Education |

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| H. V. KIDD | Demonstrator in Chemistry |
| MISS MARGARET LEE | Demonstrator in Physics |
| C. C. NEUFELD, B.A. | Demonstrator in Physics |
| ERNEST SOLOMON | Demonstrator in Chemistry |
| CARL WINKLER, B.Sc. | Demonstrator in Chemistry |

GENERAL INFORMATION

The Manitoba Summer School is conducted under the auspices of the University of Manitoba and of the Manitoba Department of Education, and is held at the Manitoba Agricultural College. The courses are open to those qualified to undertake the work. Teachers or students previously registered or whose standing has been accepted are eligible without credentials other than those asked for on the application form. Other prospective students should forward with their applications evidence of the standing claimed.

Purpose of Summer School

1. To enable members of the teaching profession to associate themselves in their vacation with instructors and with each other, to become better equipped to carry on with a modernized curriculum; to pursue specialized study in methods of teaching and to improve their academic or professional standing.
2. To enable University students to undertake subjects of the Junior Division in Arts and Science or to remove deficiencies in subjects of this Division or in pre-matriculation languages.
3. To provide an opportunity for contact with outstanding educationists.

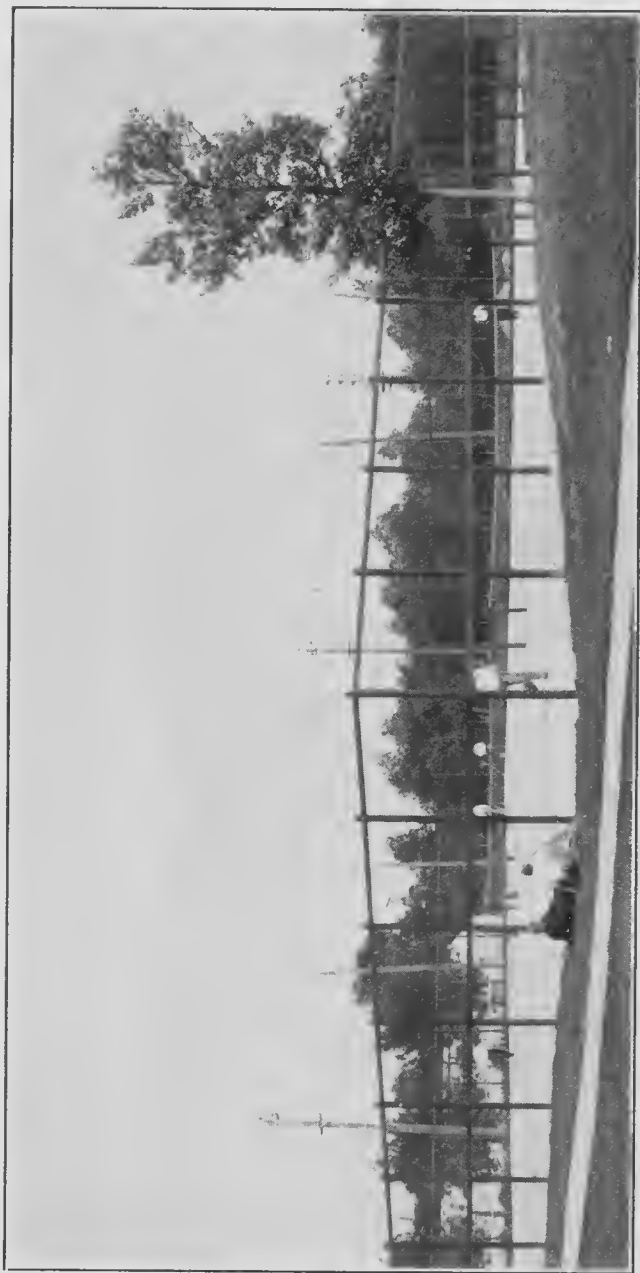
Registration

Registration will take place on Saturday, July 2nd. The instructors will be present for consultation concerning the work of their courses and students should register on this date and have all books and material ready for their classes, which will begin promptly at 8.30 a.m., Monday, July 4th. Students should make a careful study of this Calendar before registration. Those registering in University Courses should provide themselves with the University Arts and Science Calendar before the date for registration. A copy of the Calendar may be obtained on request from Dr. W. J. Spence, Registrar of the University.

Students may register for the 1932 session at the office of the Dean at the University Buildings, Kennedy Street, from June 2nd to June 25th, 1932, both days inclusive.

Application

Application for courses should be made as early as possible to the **Secretary of the Summer School Committee, Department of Education.** Application for courses not listed in this announcement will be considered up to June 2nd, but no courses outlined herein or otherwise proposed will be given unless a sufficient number of applications is received on or before the date specified.



THE SUMMER SCHOOL TENNIS COURTS

Advance Registration

Summer school students may secure rooms in advance for the 1932 session. This may be done by making application to Dean Tier, University of Manitoba, and accompanying the Preliminary Application Form with a cheque in favor of Manitoba Summer School, *payable at par in Winnipeg*, and covering not only the required fee for Board and Room, but also the Student Organization Fee of \$2 and the prescribed fees for the subject or subjects elected. Students should consult the Summer School Calendar to ascertain the *exact* amount of fees to send in. Such students must present themselves for classes on July 4th. After June 25th registration and allotment of rooms will take place only on July 2nd at the Summer School Offices at the Agricultural College.

Enrolment

Enrolment will be limited. Applications will be considered in the order of their receipt at the office of the Secretary.

The following fees are payable at registration:

Fees for courses elected (see page 37) and charges for board and room (if the student is to reside at the college).

Note—The Course Fee covers tuition, laboratory charges (if any) and examination.

Student's Organization Fee, to be paid by all students taking courses at the Summer School.....\$2.00

University Registration Fee (required only from those who desire credit on a degree or diploma course and are registering for University Examinations for the first time).....\$2.00

Attendance

Students are required to attend regularly from the opening day of the term.

Supplies

Books required for all courses may be procured from the Book Department, University of Manitoba, Winnipeg, and should be purchased well in advance of the opening of the session. Supplies required during the session may be procured at the Agricultural College.

Residence Accommodation

On arrival in Winnipeg, students should proceed to the College and register, and be prepared to pay the following fees in advance at the time of registration.

Board and Room—Students will be required to pay for board and room at the same rate charged by the College to their regular students. For 1932, this will be \$30.00 for 4 weeks; \$45.00 for 6 weeks. The charge for moving trunk will be \$1.00.

Cheques should be made payable to the Manitoba Summer School, and must be presented in person. Room keys must be returned to the Bursar's Office before leaving residence.

Baggage checks for trunks should be handed to the Bursar, who will arrange for their transportation from the station to the College. Students are particularly requested to have their names on their trunks and to bring their hand baggage with them and thus avoid loss or delay.

DAILY PROGRAM OF CLASSES

Monday to Friday

This time table will be effective beginning 8.30 a.m., Monday, July 4th. Laboratory periods for Science subjects will be arranged by the instructors at the opening of the session.

Morning:

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| 8.30 to 9.20— | Primary Methods (8.30 to 11.20)..... |
| | Senior Methods (8.30 to 11.20) |
| | Teaching of History..... |
| | Progressive Methods of Teaching..... |
| | Latin Grammar, Grade XI..... |
| | Elementary German..... |
| | German I..... |
| | French, Grade XII and French I, Authors..... |
| | Chemistry, Grade XII and Chemistry I..... |
| | Latin, Grade XII and Latin I, Prose..... |
| | Latin II..... |
| | French II, Practice..... |
| | English Grade A, and English III..... |
| | English IV..... |
| 9.30 to 10.20— | Educational Measurements..... |
| | Philosophy of Education..... |
| | Latin Authors, Grade XI..... |
| | Elementary German..... |
| | German I..... |
| | Chemistry Grade XII and Chemistry I..... |
| | French, Grade XII and French I, Grammar..... |
| | Latin Grade XII and Latin I, Authors..... |
| | Latin II..... |
| | French II, Authors..... |
| | Trigonometry Grade XII, Mathematics IA and IIA .. |
| | English Grade A and English III..... |
| | English IV..... |
| 10.30 to 11.20— | History of Education..... |
| | Principles of Secondary Education..... |
| | French Grammar, Grade XI..... |
| | Algebra Grade XII and Algebra I..... |
| | Physics Grade XII and Physics I..... |
| | Optional English and English II, Literature..... |
| | Calculus II..... |
| | Social Psychology III..... |
| 11.30 to 12.20— | Psychology, Educational and Introductory..... |
| | Teaching of English..... |
| | French Authors, Grade XI..... |
| | Geometry Grade XII and Geometry I..... |
| | Physics Grade XII and Physics I..... |
| | Optional English and English II, Prose..... |
| | Geometry II..... |

Afternoon

- 2.00 to 2.50—Teaching of Science (2.00 to 5.00).....
 Teaching of French.....
 Elementary French.....
 English, Grade XII and English I, Prose.....
 Botany II (2.00 to 5.00).....
 History, Grade XII and History I.....
 History II.....
 History III.....
 History IV.....
 Music.....
 Speech Arts.....
- 3.00 to 3.50—Elementary French.....
 English Grade XII and English I, Literature.....
 History, Grade XII and History I.....
 History II.....
 History III.....
 History IV.....
 Drawing and Art (Course I).....
- 4.00 to 4.50—Drawing (Course II).....
- 7.00 to 8.30—Astronomy—Three evenings per week beginning
 July 7th.....



DR. PETER SANDIFORD
 Professor of Education, University of Toronto, Special Lecturer,
 Manitoba Summer School Session 1931.

IMPORTANT NOTICE

The full benefit from short intensive courses, such as the Manitoba Summer School offers, can be secured only when the student has prepared himself in advance by a period of private study. Outlines and directions for this home study have been prepared in English and in History and will be sent to applicants for these courses upon receipt of the preliminary application form. These directions and outlines are intended not to supersede the texts but rather to assist the student in making use of them.

The prescriptions of work for courses in foreign languages, mathematics, and other subjects are contained within very definite limits in the various text books. Applicants for such courses are urged to secure the required books at once and begin a systematic study of contemplated courses.

OUTLINE OF THE COURSES

PROFESSIONAL COURSES

Students intending to take the First Class Professional Course are advised that the time spent on these subjects at the Summer School is not considered sufficient to cover the work of each course. The courses must be studied in advance. Outlines to guide study have been prepared and may be obtained on application to the Secretary. All students will be required, when they register, to present evidence of having completed the preparatory work. It is suggested that the student make a brief synopsis of each text. All courses will continue through the four weeks. Those not recommended by the instructors will not be admitted to the examinations.

Note—Time: Professional Courses, except as otherwise stated, will begin at 8.30 a.m. on Monday, July 4th, and continue for four weeks.

Courses

| | |
|---------------------------------|-----------------------------------|
| History of Education | How to Measure |
| Philosophy of Education | Principles of Secondary Education |
| Psychology | The Teaching of English |
| Progressive Methods in Teaching | The Teaching of History |

The Teaching of Science

Lectures in the Teaching of Science will be given at the Summer School. The course will be given in the afternoons, and will consist of two hours of lectures per day and one hour of field work. This course has been designed to assist teachers of Grades VII, VIII, IX and X with their work in Science. Those who successfully complete the course will be granted standing in the Teaching of Science of the First Class Professional Course. This credit may be taken with any option.

Teaching of French

A course in the teaching of modern languages for First Class Professional credit will be conducted by Miss M. Brooker. Miss Brooker will stress the teaching of French in the Junior High School grades.

Primary Methods

This is a special course in methods of teaching in the primary grades. Emphasis will be placed upon Language, Reading, Phonics and Seat Work.

Senior Public School Methods

This is a special course in methods of teaching in the senior grades. Special emphasis will be placed on Reading and Speaking, Composition, Grammar, History and Geography. The course will be largely informational in character, but given with the background of sound teaching methods. One period a day will be devoted to General Knowledge.

UNIVERSITY AND NON-PROFESSIONAL COURSES

Non-professional Courses, except as otherwise specified, will begin on Monday, July 4th, and will continue for six weeks.

A student will not be permitted, except in special circumstances, to elect more than two subjects from the non-professional courses. An effort will be made to cover within the term of the Summer School all of the work of the subjects undertaken, as outlined for a full annual session in the regular classes, but whether or not this can be accomplished will depend, in the case of a student taking class work for the first time in the subject in question, upon the amount of *private study* he has given to it in advance. In order to be profitable, some preparatory work must be done. We are sure teachers and students feel the necessity of this and to assist our students in their work before coming to the Summer School outlines have been prepared in almost every subject. These outlines are sent to each student immediately he registers for a course. Students who register early have the advantage of this additional assistance, and by planning their work in accordance with the outlines are able to appreciate the lectures better and get much more from their course.

Examinations of ordinary University and Departmental standards will be provided during the concluding days of the Summer School term, to which will be admitted such students of the various classes as are recommended by their instructors. The instructor of each class is empowered to withhold recommendation for examination in the case of any of his students whose class record and attainment do not, in his opinion, justify immediate examination, and to require such to come up for examination later, after a further period of private preparation, say in September or at the December and April examinations of the ensuing session. *The Summer School reports on these examinations will be accepted for credit by the University and the Department of Education only where the student has fully met the requirements of these respective bodies as to eligibility. It would be well, where any doubt exists on this point, for the applicant to consult the Registrar of the University or the Registrar of the Department of Education in advance of registration.*

Students should consult the 1931-1932 University Calendar for Arts and Science and the Programme of Studies of the Department of Education for 1931-1932 for further information regarding the courses outlined below.

ASTRONOMY

Astronomy II.

A study of the summer skies; methods of locating celestial objects; the shape and motions of the earth; the sun and eclipses; the moon; the planets; comets and meteors; stars and nebulae; ancient and modern conceptions of the Universe; recent astronomical discoveries. Lectures illustrated with lantern views; observational meetings arranged. Text book, *An Introduction to Astronomy* by F. R. Moulton (MacMillan).

Three evenings per week; lectures one and one-half hours each.

BOTANY

Botany II—Courses 1, 2, 3, 4,

1, 2. **General Botany.** An introductory lecture course covering, among other topics, the following: Classification of objects; comparison of living and non-living matter; the differences between animals and plants. The structure of the seed and contents of its cells; the seeds of the pea, bean, castor oil plant, and date palm; the grains of wheat and corn; the

conditions for germination, and the phenomena accompanying it; the exhaustion of the reserve food-stuffs. The seedling: its structure, mode of development and relations with external conditions; the theory of irritability; geotropism, heliotropism and hydretropism; the further development of shoot and root. The general morphology of the plant body, and the principal modifications of the stem, leaf and root; buds, grasshauks, stolons, runners, rhizomes, corms, tubers, bulbs, spines and thorns, tendrils, cladodes, phyllodes, compound leaves, etc.; the growing point of stems; the origin of new leaves and buds. The cell and the cell theory; protoplasm as the physical basis of life; protoplasmic movement; turgidity; the structure and division of the nucleus; the origin of new cells by cell division. The internal morphology of the stem of monocotyledons and of dicotyledons; the functions of vascular bundles; the cambium and the secondary thickening of stems and roots; the secondary protective tissues, cork and bark. The leaf as an organ for carrying on the process of photosynthesis; the epidermis, including hairs and stomata, vascular bundles, mesophyll, and intercellular spaces; photosynthesis (carbon assimilation); the nature and function of chlorophyll corpuscles and of chlorophyll; the evacuation of the products of photosynthesis and their ultimate fate. The root: its root-tip, root hairs, and mode of branching; the growing point. Climbing plants; stem-climbers and tendril climbers; the physiology of climbing; lateral geotropism, reactions to the stimulus of contact. The elementary facts in the nutrition of the plant; the nature and sources of the raw food materials; the necessary chemical elements and their mode of absorption; water cultures; the constitution of the soil; the transpiration current; transpiration; photosynthesis; the products of metabolism, together with their distribution, storage, and utilization; respiration contrasted with photosynthesis. Carnivorous plants; *Drosera*, *Utricularia*, *Sarracenia*, *Dionaea* and *Nepenthes*. The classification of plants, including the main sub-divisions of the vegetable kingdom; the morphology and physiology of the following Thallophyta: *Protococcus* (*Pleurococcus*), *Saccharomyces* (yeast), *Bacteria*, *Spirogyra*, *Fucus*, *Mucor*, *Penicillium*, *Psalliota campestris* (mushroom). Alcoholic fermentation; *Bacteria* as the cause of nitrogen fixation, of fermentative processes, of putrefaction, and of disease. The Bryophyta, illustrated by a moss plant; the Pteridophyta, illustrated by a fern plant; alternation of generations. Reproduction in the Phanerogamia; the flower and its chief modifications in structural plan; the minute structure of the pollen grain and of the ovule; Pollination and its agents; floral mechanisms as illustrated by the Lady Slipper Orchid, *Primula*, *Salvia*, etc. Fertilization of the ovule; development of seeds and fruits; the plum, strawberry, orange, cocoanut, etc.; dispersion of seeds and fruits; the nature of pine cones, both male and female. Two hours a week.

3, 4. **Laboratory Course in General Botany.** This course is designed to accompany courses 1, 2.

CHEMISTRY, GRADE XII.

Chemistry XI is a prerequisite for Chemistry Grade XII

Texts: *Outline of Experiments in Practical Chemistry, Grades XI and XII.* (Price, 20 cents.)

McPherson & Henderson: *An Elementary Study of Chemistry. Introductory College Course.* (Price, \$2.40.) Omit chapters I, II, III, IV, XI, XIII, XX, XXXVI, XXXVII, XL, XLI, XLII, XLIII, XLIV.

2. Water supplies. Purification of water. Industrial softening of water. Disposal of sewage.

3. Kinetic theory, and its relation to gas laws. (Boyle, Charles, Henry, Dalton). Diffusion. Vapor pressure.

4. Solutions. Standard solutions. Osmotic pressure. Boiling and freezing points. Conductivity. Ionization. Electrolysis.

5. Ionic Reactions. Neutralization. Heat of neutralization. Behaviour of acids, bases and salts in solution. Classification of salts. Hydrolysis.

6. Equilibrium and mass action. Equations. Thermal equations. Colloids.

7. Determination of combining, atomic and molecular weights. Avogadro's Principle.

8. Matter. Structure of matter—molecules, atomic structure (protons and electrons).

9. Valency. Loss and gain of electrons. Oxidation and reduction.

10. Oxides and acids of nitrogen. Anhydrides. Fixation of nitrogen. Nitrogen cycle. Fertilizers.

11. Compounds of carbon (organic compounds). Hydrocarbons. Alcohols. Acids. Esters. Soap. Carbohydrates. Fuels, and heat of combustion. Coal tar. Dyes. Explosives. Cellulose and cellulose products.

12. Mendeleeff's Periodic Law and classification. Atomic numbers. Uses.

General Note referring to following sections

Study of groups of elements, emphasizing relation of groups to Periodic Classification: a study of selected members of each group with regard to occurrence, preparation (or extraction), properties of element and its important compounds, and uses, including industrial applications.

Zero Group.

Group I. Sodium, potassium, copper, silver, gold.

Group II. Calcium, magnesium, zinc, mercury.

Group III. Boron, aluminium.

Group IV. Silicon, tin, lead.

Group V. Phosphorus.

Group VI. Sulphur.

Group VII. Halogens.

Group VIII. Iron, cobalt, nickel.

ENGLISH

Grade XII—English and English I—Courses 1, 2, 3, 4.

Grade XII—Optional English and English II—Courses 5, 6.

Grade "A"—English and English III—Courses 7, 8, 9, 10.

English IV—Courses 11, 12, 13, 14.

1. **Composition**—(One paper).

The writing of an essay of not less than eight hundred words on one of a number of subjects.

All the following points will be considered in marking the composition:—elegance; force; clearness; plan (unity, sequence, proportion); paragraph structure, unity, sequence; sentence structure; choice of words.

The following are suggested as suitable reference books in Composition in Grade XII:

- (a) Tanner: *Composition and Rhetoric* (Ginn & Co.).
- (b) *Model Class Books of English, Books V and VI* (Blackie & Co.).
- (c) *Literary Reading and Composition, Senior Course* (Blackie & Co.).
- (d) Newbolt Series: *English in Upper Forms* (Thos. Nelson & Son.).

2. Rhetoric and Prose Literature (including History of English Literature)—(One paper).

Pilgrim's Progress (Bunyan), Part I. (Nelson Classics.)
 Select Essays of Addison—Thurber. (Allyn & Bacon.) Pages 1-80.
 Kenilworth—Scott. (Nelson Classics).
 Great Expectations—Dickens.
 Scenes from Clerical Life—Eliot.
 Modern English Prose—Carpenter & Brewster.
 Gibbon—Byzantium;
 Hudson—The Plains of Patagonia;
 Borrow—The World's End;
 Kipling—Wee Willie Winkie;
 Poe—The Cask of Amontillado;
 Stevenson—Markheim;
 Hewlett—The Miracle of the Peach Tree;
 London—A Dog and his Master;
 Scott—The Combat in the Desert;
 Dickens—David and the Ark;
 Eliot—A Voice from the Past;
 Parkman—Braddock's Defeat;
 Green—Queen Elizabeth;
 Bryce—National Characteristics as moulding Public Opinion;
 Whitney—The Origin of the Yosemite Valley;
 Tyndall—Glacier Ice;
 Bagehot—Ornate Art;
 Pater—Charles Lamb;
 Emerson—The American Scholar;
 Thoreau—Where I Lived, and What I Lived for;
 Mill—Civil Liberty;
 Thackeray—Nil Nisi Bonum;
 Lamb—Mrs. Battle's Opinions on Whist;
 De Quincey—The Vision of Sudden Death;
 Stevenson—An Apology for Idlers.

3. Poetical Literature.—(Including History of English Literature)—(Two papers).

Text: Greater English Poets, edited by Crawford, Perry and Woodhouse.

First Paper—
 Milton—On Shakespeare; L'Allegro; Il Penseroso; Sonnets II., VIII., XIII., XIX., XXII., XXIII.;
 Dryden—Absalom and Achitophel, lines 134-227; Epigram on Milton;
 Alexander's Feast;
 Pope—The Rape of the Lock; The Universal Prayer;
 Collins—Selections in text;
 Gray—An Ode, On a Distant Prospect of Eton College; Elegy Written in a Country Churchyard;
 Goldsmith—The Deserted Village;

Cowper—On the Loss of the Royal George; On the Receipt of My Mother's Picture; To Mary.

Blake—Selections in text;

Burns—Selections in text;

Wordsworth—Simon Lee; Lines Composed a Few miles above Tintern Abbey; The Reverie of Poor Susan; We are Seven; She was a Phantom of Delight; My Heart Leaps up; At the Grave of Burns; Composed upon Westminster Bridge; I Wandered Lonely as a Cloud; On the Sea-shore near Calais; The World is Too Much With Us; To a Skylark.

Coleridge—The Ancient Mariner;

Byron—She Walks in Beauty; Selections from *Child Harold*; The Coliseum and the Ocean.

Second Paper—

Shelley—Ode to the West Wind; To a Skylark.

Keats—The Eve of St. Agnes; Ode on a Grecian Urn; La Belle Dame Sans Merci; Ode to a Nightingale.

Mrs. Browning—Cowper's Grave; The Forced Recruit.

Poe—The Raven.

Tennyson—The Lady of Shalott; Oenone; The Lotus-Eaters; Ulysses; Break, Break, Break; Tithonus; Idylls of the King; Crossing the Bar;

Browning—Cavalier Tunes; Incident of the French Camp; My Last Duchess; Count Gismond; Home Thoughts from Abroad; Home Thoughts from the Sea; Andrea del Sarto; Prospice; Asolando; Epilogue; Up at a Villa—Down in the City.

Arnold—The Forsaken Merman; To Marguerite; Rugby Chapel; Dover Beach;

Rossetti—The Blessed Damozel; Mary's Girlhood;

Hardy—Selections in text;

Watson—Wordsworth's Grave; April, April;

Carman—Selections in text;

Yeats—Selections in text;

Kipling—Mandalay; The Glory of the Garden;

McCrae—Slumber Songs; In Due Season; In Flanders Fields;

Noyes—The Highwayman; Mountain Laurel;

Brooke—Seaside; The Soldier; The Great Lover;

Arnold—Sohrab and Rustum (Houghton, Mifflin & Co.)

4. History of English Literature—Long (Ginn & Co.)

Special attention to be paid to those Authors whose works are studied in the Poetical and Prose Literature.

Students desiring credit in English I will take all of the above courses with the exception of Course I and take two examinations, one a mid-term examination and the other an examination at the conclusion of the session.

5, 6. English Poetry and Prose.

(1) First Term. (a) English Poetry.

Chaucer—The Prologue to the Canterbury Tales;

Spenser—The Faerie Queene, Book I, ed., Kitchin (Oxford);

Milton—On the Morning of Christ's Nativity; Lycidas; Paradise Lost, Book I.

Text: Greater English Poets, edited by Crawford, Perry, and Woodhouse (Macmillan).

Note: The course involves a knowledge of the life and times of the authors read, and an ability to render Chaucer into modern English prose.

References: English Literature, Its History, by W. J. Long (Ginn & Co.), pp. 67-235; Spenser, Milton, in English Men of Letters Series (Macmillan); Chaucer, Spenser, Milton, in Dictionary of National Biography; A Biographical Dictionary of English Literature (Everyman, Dent).

(b) **English Prose.** Bacon—The Essays of Francis Bacon, edited by C. S. Northup (Houghton Mifflin Co.). The following essays: Numbers 1, 5, 10, 11, 13, 16, 17, 18, 23, 27, 29, 36, 42, 50;

Addison—Select Essays of Addison, edited by Samuel Thurber (Allyn & Bacon, Boston). Selections, pages 1-80, 80-89, 104-122, 141-167, 177-180, 187-206, 213-220;

Johnson—Rasselas (Oxford);

Boswell—A Shorter Boswell, edited by Bailey (Nelson);

Lamb—Essays of Elia (King's Treasuries, Dcnt).

Reference: English Literature, Its History, by W. J. Long (Ginn & Co.).

(2) Second Term. (a) **English Poetry.** Shakespeare—The following plays: Romeo and Juliet; Richard III; Antony and Cleopatra. Texts: The New Hudson Shakespeare (Ginn & Co.); English Literature, Its History, by W. J. Long (Ginn & Co.), Chapter VI, "The Age of Elizabeth."

References: An Introduction to Shakespeare, by MacCracken and others (Macmillan); Shakespeare, His Life and Work by Oliphant Smeaton (Everyman, Dent); "Shakespeare" in Dictionary of National Biography; Biographies of Shakespeare by Sidney Lee and Joseph Quincy Adams.

(b) **English Prose—**

Carlyle—Signs of the Times; Essay on Burns; Inaugural Address at Edinburgh (Everyman);

Macaulay—History of England, Chapter III (King's Treasuries, Dent); Ruskin—The Open Sky; Mountain Glory; Greatness in Art; The Pathetic Fallacy; St. Mark's; Nature of Gothic; Roots of Honour (Modern Student's Library, Scribner's);

Arnold—Sweetness and Light; The Function of Criticism; Literature and Science (Houghton Mifflin Co.);

Huxley—On the Advisableness of Improving Natural Knowledge; A Liberal Education; On a Piece of Chalk (Henry Holt & Co.).

References: A Nineteenth Century Literature, by George Saintsbury (Macmillan); English Literature, Its History, by W. J. Long (Ginn & Co.).

7. **Chaucer and English Mediaeval Literature.** A detailed study of Chaucer, and assigned readings in texts of the mediaeval period.

(a) Chaucer—The Canterbury Tales: The Prologue; The Knights Tale; The Nonne Preestes Tale; The Pardoner's Tale; The Clerkes Tale. Texts: Selections from Chaucer, edited by E. A. Greenlaw (Scott, Foresman & Co.); The Clerkes Tale, edited by Kenneth Sisam (Oxford); The Poetry of Chaucer, by R. K. Root (Houghton Mifflin Co.).

(b) Mediaeval Literature—The Wakefield Second Shepherd's Play (Everyman, Dent); Langland's Piers Plowman (Everyman, Dent); French Mediaeval Romances, translated by Eugene Mason (Everyman, Dent); The Mabinogion, translated by Lady Charlotte Guest (Everyman, Dent); Froissart's Chronicles (Everyman, Dent).

References: A Chaucer Handbook, by R. D. French (Crofts & Co., N.Y.); Chaucer and His Poetry, by G. L. Kittredge (Harvard University Press); Some New Light on Chaucer, by J. M. Manly (Henry Holt & Co.); Introduction to Mediaeval Literature, by C. S. Baldwin (Longmans); English Literature from the Norman Conquest to Chaucer, by W. H. Schofield (Macmillan).

8. **Shakespeare.** The Merchant of Venice; Richard III; As You Like It; Hamlet; Othello; Antony and Cleopatra (New Hudson Shakespeare, Ginn & Co.). Introduction to Shakespeare, by MacCracken and others (Macmillan); A Life of Shakespeare, by Joseph Q. Adams (Houghton Mifflin Co.).

References: A Life of Shakespeare, by Sidney Lee (Macmillan); Hamlet, An Ideal Prince, and other Essays, by A. W. Crawford (The Copp

Clark Co.); Elizabethan Literature, by Saintsbury (Macmillan); History of English Dramatic Literature, by A. W. Ward (Macmillan); Elizabethan Drama, by F. E. Schelling (Houghton Mifflin Co.).

9. **Milton.** (a) Poetry: Comus; Sonnets; Paradise Lost, Books I, II, III, IV, IX; Samson Agonistes. (b) Prose: Of Education; Areopagitica; The Tenure of Kings and Magistrates. Text: Milton's Prose, selected and edited by Malcolm W. Wallace (World's Classics, Oxford).

References: The Tenure of Kings and Magistrates, edited by W. T. Allison (Henry Holt & Co.); Milton, by John Bailey (Home University Library); A Milton Handbook, by James H. Hanford (F. S. Crofts & Co.).

10. **Restoration and Eighteenth Century Literature.** (Dryden to Burns).

(a) **Poetry:**

Dryden—Annus Mirabilis; Absalom and Achitophel, Part I; Religio Laici; The Hind and the Panther, Part I. Text: Dryden, Select Poems, edited by Christie (Oxford);

Pope—Ode on Solitude; Essay on Criticism; Elegy on an Unfortunate Lady; Essay on Man; Epistle to Dr. Arbuthnot; To Augustus; Epilogue to the Satires, Dialogue II. Text: Pope, Selected Poems, edited by Bredvold (F. S. Crofts & Co.), or by Sherburn (Nelson);

Selections from Dryden, Swift, Pope, Thomson, Johnson, Collins, Gray, Goldsmith (The Traveller) in English Poems, Restoration and Eighteenth Century, edited by Bronson (University of Chicago Press);

Ballads. Text: English Songs and Ballads, edited by T. W. H. Crosland (World's Classics).

(b) **Prose.** Letters. Text: English Letters, edited by M. Duckitt and H. Wragg (World's Classics);

Swift—Battle of the Books (Everyman, Dent);

Johnson—Lives of Dryden and Pope (World's Classics);

Boswell—Life of Johnson, edited by Chas. S. Osgood (Modern Student's Library, Scribner's);

Gibbon—Autobiography (World's Classics).

References: A History of Eighteenth Century Literature, by Gosse (Macmillan); Dryden, Swift and Pope, in English Men of Letters Series (Macmillan); Dr. Johnson and His Circle, by Bailey (Home University Library); A History of English Romanticism in the Eighteenth Century, by H. A. Beers (Henry Holt & Co.).

11. **Romantic Poetry.**

Wordsworth—Lines Written in Early Spring; Expostulation and Reply; The Tables Turned; The Old Cumberland Beggar; Nutting; Three Years She Grew in Sun and Shower; Matthew; The Prelude; Michael; Resolution and Independence; The Green Linnet; Stepping Westward; To the Cuckoo; Ode to Duty; To a Skylark; Elegaic Stanzas; Character of the Happy Warrior; Ode; Intimations of Immortality; To a Skylark; Scorn Not the Sonnet;

Coleridge—Christabel; France; An Ode; Dejection; An Ode;

Byron—English Bards and Scotch Reviewers; From Childe Harold's Pilgrimage; The Isles of Greece; On This Day I Complete my Thirty-Sixth Year; Selected Lyrics;

Shelley—Hymn to Intellectual Beauty; Lines Written among the Euganean Hills; Stanzas; The Sensitive Plant; Epipsychidion; Adonais; Selected Lyrics;

Keats—Sleep and Poetry; Isabella; or The Pot of Basil; Bards of Passion and of Mirth; Ode on Melancholy; Ode on a Grecian Urn; Ode to a Nightingale; Lamia; To Autumn; Sonnets; Letters.

Text: English Poetry and Prose of the Romantic Movement, edited by George B. Woods (Scott, Foresman & Co.).

References: Wm. Wordsworth, by G. M. Harper (Murray); The Early Life of Wordsworth, by E. Legouis (Dodd); S. T. Coleridge, by J. D. Campbell (Macmillan); Byron, by Ethel C. Mayne (Scribner's); Shelley, The Man and the Poet, by Clutton-Brock (Methuen); Keats, by Sidney Colvin (Macmillan).

12. Victorian Poetry.

Tennyson—Mariana; The Poet; A Dream of Fair Women; You Ask Me Why; Of Old Sat Freedom; Love Thou Thy Land; Locksley Hall; Songs from the Princess; In Memoriam; Ode on the Death of the Duke of Wellington; Maud; The Higher Pantheism; To Virgil; Frater Aveatque Vale;

Browning—The Lost Leader; The Laboratory; Love Among the Ruins; Saul; By the Fireside; Two in the Campagna; One Way of Love; Another Way of Love; The Last Ride Together; Porphyria's Lover; Childe Roland; Karshish; Fra Lippo Lippi; Abt Vogler; Rabbi Ben Ezra; Confessions; Apparent Failure;

Arnold—Sonnet; To a Friend; Shakespeare; Self-Dependence; The Future; Requiescat; The Scholar Gipsy; Stanzas from the Grand Chatterhouse; East London; West London; Growing Old; Immortality; The Last Word.

Text: Victorian Poetry, edited by C. E. Andrews and M. O. Percival (R. S. Adams, Columbus).

References: Lives of the above poets in English Men of Letters Series (Macmillan); The Literature of the Victorian Era, by Hugh Walker (Cambridge); Survey of English Literature, 1830-1880, by Oliver Elton (Edward Arnold & Co.); History of English Literature, by Legouis and Cazamian (Dent).

13. **The English Novel.** Development to the Middle of the Nineteenth Century. Hopkins & Hughes, Extracts from the English Novel before the Nineteenth Century (Ginn); Richardson's Pamela (Everyman); Fielding's, Joseph Andrews (Everyman); Goldsmith's Vicar of Wakefield (Nelson's Classics); Maria Edgeworth's Castle Rackrent (Everyman); Walpole's Castle of Otranto (Hopkins & Hughes); Mrs. Shelley's Frankenstein (Everyman); Scott's Heart of Midlothian (Nelson's Classics); Jane Austen's Pride and Prejudice (Nelson's Classics); Dickens's Oliver Twist (Nelson's Classics); Hawthorne's The Scarlet Letter (Everyman); Thackeray's Henry Esmond (Nelson's Classics); George Eliot's Middlemarch (Collins); Text: Development of the English Novel, by W. L. Cross (Macmillan).

References: The English Novel (To Scott), by Sir Walter Raleigh (Murray); The Advance of the English Novel, by Wm. Lyon Phelps (Macmillan); Motives in English Fiction (To Dickens), by Robt. N. Whiteford (Putnam's).

14. **Victorian and Georgian Prose.** Imaginative Prose from the middle of the Nineteenth Century to the present.

Landor's Imaginary Conversations (World's Classics); Borrow's Lavengro (Everyman); Stevenson's Virginibus Puerisque (Everyman); Pater's Marius the Epicurean; Meredith's Ordeal of Richard Ferval (Scribner's); Hardy's Return of the Native (Scribner's); Stevenson's Master of Ballantrae (Macmillan's Pocket Classics); Barrie's The Little Minister (Cassell's); Wm. De Morgan's Joseph Vance (Nelson's); Conrad's Lord Jim (Doubleday); Bennett's Old Wives' Tale (Nelson's); Galsworthy's The Man of Property (Heinemann).

References: Development of the English Novel, by W. L. Cross (Macmillan); The Modern English Novel, by Abel Chevalley (Macmillan); A Century of the English Novel by Cornelius Weygandt (Century Co.). Fourth Year Arts, Pass and Honors, Second Term. Two hours a week.

FRENCH

Elementary French—Course 1.

Grade XI—French—Courses 2, 3.

Grade XII—French and French I—Courses 4, 5; 6, 7.

French II—Courses 8, 9; 10, 11.

1. (a) **New Elementary French Grammar**, Lessons I-XXIV, inclusive.

(b) Conjugation of the irregular verbs: conduire, construire, cuire, luire, nuire, taire, faire, plaire, lire, confire, suffire, dire, hair, écrire, boire, croire, fuir, payer, employer, appuyer, envoyer, asseoir, inclure, conclure, rire, perdre, vendre, voir, finir, naître, connaître, croître, partir, sentir, mentir, repentir, dormir, bouillir, servir, mettre, suivre, battre, vivre, craindre, peindre, joindre, résoudre, dissoudre, absoudre, coudre, moudre, prendre, vaincre, mouvoir, pouvoir, savoir, devoir, recevoir, vouloir, falloir, valoir, aller, venir, tenir, mourir, acquérir, appeler, jeter, mener, geler, acheter, ouvrir, souffrir, offrir, assaillir, cueillir.

(c) **The French Reader**—Part II (Ryerson Press).

One of the following will be found very helpful in studying the Verb: Short Theory of the Conjugation of the French Verb —Muller (Copp, Clark Co.), Passe-Partout Verb Leaf—Baker (Russell, Lang & Co.).

French

2. (a) **Grammar.** Special emphasis should be placed upon the following essentials of French Grammar:

(1) The inflection of nouns and adjectives.

(2) The inflection of the verb, including the full conjugation of all the commonly used irregular verbs.

(3) Tense auxiliaries, the reflexive verb, and the agreement of the past participle.

(4) Pronouns, including demonstrative, interrogative, relative, and indefinite pronouns and the order of pronoun objects.

(5) Conditional sentences and the use of the subjunctive mood.

Text: Fraser & Squair: *New Elementary French Grammar* (Copp, Clark Co.).

(b) **Prose.** (1) The translation into French of short sentences as a test of the student's knowledge of correct grammatical forms and structures and of conversational idiom. (2) The translation into French of easy continuous passages of a similar character, designed to test the extent of the student's active working vocabulary concerning every day things and activities.

(c) **Composition.** The writing of short original compositions concerning every day topics involving the reproduction of the material of the Grammar and its exercises.

3. **Authors and Sight.** (a) The reading of the following texts, upon which passages may be set upon the examination. Labiche et Martin: *La Poudre aux Yeux* (edited by E. Sonet). (Irwin & Gordon, Ltd., Toronto). Parker: *Favorite French Stories*, pages 39 to 113 (Allyn & Bacon).

The chief aim in the authors' work should be to acquire a feeling for the language and to make the vocabulary and idiom of the reading matter as far as possible an active vocabulary and idiom for the student. Mere translation into English will not accomplish this, and the constant writing out of such translation is a useless waste of time. The aim can be accomplished best (1) by frequent reading aloud of the passages already studied; (2) by the memorization of suitable passages; (3) by frequent oral and written reproduction in French of the matter read.

(b) **Sight Translation.** Practice in reading at sight of French passages of moderate difficulty. One or more such passages will be set upon the examination, for which a maximum of 25% of the marks will be assigned.

4, 5. **Grammar and Composition.** Text: *Beginners' French Grammar*, Olmstead and Sirieh, published by Henry Holt.

First Term—First thirty Lessons, together with proportionate part of a Review of the Complete Verb.

Second Term—Lessons XXXI-LV, together with completion of Verb Review.

6, 7. **Authors.** First Term—Stories from *Mérimée*, ed. by Buffum, pub. by Holt and Co. Second Term—Alphonse Daudet: *Lettres de mon Moulin*, ed. by Moore, pub. by Nelson and Sons; and Jules Romains: *Knoek ou Le Triomphe de la Médecine*, ed. by Menut and Chapman, pub. by The Century Co.

8, 9. **Practice and Composition.** Text: *French Composition and Conversation*, Olmstead and Barton, published by Henry Holt. First Term: Lessons I-IX inclusive. Second Term: Lessons X-XXI inclusive. The student will use for reference *The New Fraser and Squair Complete French Grammar*, Part II (Copp, Clark Co.).

10, 11. **Authors.** First Term—Louis Hémon: *Maria Chapdelaine*, pub. by The MacMillan Co. of Canada. Second Term—*Quelques Contes des Romanciers Naturalistes*, ed. by Dow and Skinner and pub. by Heath and Co.; and Molière: *Le Misanthrope*, ed. by Eggert, and pub. by Heath and Co.

GERMAN

German IA—Courses 1, 2.

German I and German IIA—Courses 3, 4.

1, 2. **Elementary German.** Two lectures daily.

This course is offered to those who wish to begin a study of the German language. It is a subject in the Junior Division of Arts and Science and is given a credit of 4 units. It may be elected as a second language by students proceeding to the Degree and should be elected by students in the Honor Science Course and by Students desiring to qualify at the end of the Junior Division in Arts and Science for entrance to the Faculty of Medicine.

First Term: *Vos, Essentials of German*, Revised edition (Holt), Lessons 1-21.

Second Term: *Essentials of German*, completed. Zeydel, *An Elementary German Reader* (Alfred Knopf, New York), completed.

3, 4. **German Authors and Practice.**

First Term: Hennings, *Klein Heini* (Holt); Hauff, *Das kalte Herz* (Copp Clark); *Lieder, German Poems and Songs* (Oxford Press), Nos. 1-40. Nos. 1, 2, 3, 6, 8, 13, 18, 32, 33, 37 are to be memorized.

Second Term: Hagboldt, *Inductive Readings* (Univ. of Chicago Press), omitting pp. 93-98; Eggeling, *Modern German Short Stories* (Oxford Press). *German Poems and Songs*, completed. Nos. 42, 46, 50, 65, 67, 79, 81 (No. 2), 96, 97 are to be memorized.

HISTORY

Grade XII History and History I—Courses 1, 2.

History II—Courses 3, 4.

History III—Courses 5a, 5b, 6.

History IV—Courses 7, 8.

1, 2. **History**—Green's *Short History of the English People* (Everyman's Library). Chapter 3; Sections 4, 5, 6 of Chapter 6; Chapters 7, 8, 9 and 10.

A Survey of Modern History—Hodges, (Blackie and Son Ltd.).

3, 4. **Europe Since 1789.** Text book: Grant & Temperley, *Europe in the Nineteenth Century*, (Longmans). Three hours per week.

5a. **American History.** This course will attempt to outline the rise and development of the American Nation.

The following are the more important topics: The making of the constitution, Jeffersonian and Jacksonian democracy, the struggle over state rights, slavery and the Civil War, Westward expansion, industrial expansion, the tariff and immigration, American Imperialism, relations with the British Empire.

The more important works to which students will be referred are: Channing, *History of the United States*. Macdonald, *Documentary Source Book of American History*. Turner, *The Frontier in American History*. Van Tyne, *Causes of the War of Independence*. Trevelyan, *The American Revolution*. Morison, *History of the United States*. Phillips, *American Negro Slavery*. Paxson, *Recent History of the United States*.

5b. **General Canadian History up to 1783.** Emphasis will be laid on the following topics: Geography, the Indians, the French background, early discovery and exploration, the trading companies, royal government and settlement, Frontenac and western expansion, Hocquart the Intendant, Anglo-French rivalry, Quebec Act, American Revolution.

Students are advised to consult Burpee, *An Historical Atlas of Canada*, and Lucas, *Historical Geography of Canada*, Part I. General reading: Parkman, *The Old Regime and Frontenac and New France Under Louis XIV*, *Canada and Its Provinces*, *Makers of Canada*, *Chronicles of Canada*, Cambridge History of British Empire, vol. VI.

6. **General Canadian History Since 1783.** The following topics will be emphasised: The coming of the Loyalists, relations with the United States, representative and responsible government, immigration and settlement, the era of the canals and the railways, Confederation, development of political parties, rise of the West, growth of the Dominion, Canada in the Commonwealth of Nations.

General reading and atlas as for Course 5b. The following monographs are important. Van Tyne, *The Loyalists in the American Revolution*. Martin, *Empire and Commonwealth*. Keenleyside, *Canada and the United States*. Cowan, *British Immigration to British North America*. Lucas, *Durham's Report*. Morison, *British Supremacy and Canadian Self-Government*. Skelton *The Backwoodsman*. Skelton, *Life and Times of Sir A. T. Galt*. Trotter, *Canadian Confederation*. Pope, *Memoirs of Sir John A. Macdonald*. Skelton, *Life and Letters of Sir Wilfred Laurier*. Martin, *Lord Selkirk's Work in Canada*. Innis, *History of the Canadian Pacific Railway*. Kennedy, *Constitution of Canada*. Borden, *Canadian Constitutional Studies*.

7. **Canadian Constitutional History.** A survey of constitutional development from 1763 to the present, with some reference to the institutions of New France.

The following are the more important topics: The French background of Canadian History, the institutions of New France, the establishment of British rule in Nova Scotia and Quebec, the Quebec Act, the Constitutional Act, the movement for reform, the rebellions of 1837-8 and Lord Durham's Report, responsible government in the Maritime Provinces and in Canada, confederation, the admission of Manitoba and the completion of the Dominion, the development of political parties, the evolution of Imperial and foreign relations, the completion of Dominion Status.

Students will be expected to be familiar with the documentary base of this period as presented in W. P. M. Kennedy, *Statutes, Treaties and Documents of the Canadian Constitution* and in Durham's *Report*. References to particular topics will be supplied as the course proceeds. The following

are among the more important books: *Cambridge History of the British Empire*, vol. 6; W. P. Kennedy, *The Constitution of Canada*; Chester Martin, *Empire and Commonwealth*; Aileen Dunham, *Political Unrest in Upper Canada, 1815-36*; Chester New, *Lord Durham*; J. L. Morison, *British Supremacy and Canadian Self-Government*; R. G. Trotter, *Canadian Federation*; J. Pope, *Memoirs of Sir John A. Macdonald*; O. D. Skelton, *Life and Letters of Sir Wilfred Laurier*; Sir R. Borden, *Canadian Constitutional Studies*. Three lectures and one seminar per week.

8. **European History Since 1789.** The main emphasis in the course will be placed on the period after 1815. The period 1789-1815 will be studied only in such a manner as to provide an introduction to the later period. Students are therefore required to have read Rose, *The Revolutionary and Napoleonic Era*.

The following reading may be taken as indicative of the lines which the course will follow:

(1) The attempt at the international organization of peace 1815 to 1848; Webster, *Congress of Vienna*; Alison Phillips, *Confederation of Europe*; *Cambridge History of British Foreign Policy*.

(2) Germany. Treitschke, *History of Germany* (introduction by W. H. Dawson); Grant Robertson, *Bismarck*; Bismarck, *Reflections and Reminiscences*; Ward, *Germany*; Sorel, *Histoire Diplomatique de la guerre franco-allemande*.

(3) Italy. Bolton King, *History of Italian Unity*; Trevelyan, *Manin and the Venetian Republic*, *Garibaldi and the Making of Italy*; Paleologue, *Cavour*.

(4) The Near East. *Cambridge History of British Foreign Policy*; Marriott, *Eastern Question*; Hall, *England and the Orleans Monarchy*.

(5) France. Lucas-Dubreton, *La Restauration et la Monarchie de juillet*; Lowes-Dickenson, *Revolution and Reaction in Modern France*; Simpson, *L. Napoleon and the Recovery of France*.

More specialized reading will be suggested as the course proceeds.

LATIN

Elementary Latin—Courses 1, 2.

Latin Grade XI—Courses 3, 4.

Latin Grade XII and Latin I—Courses 5, 6.

Latin II—Courses 7, 8.

1. **Latin Grammar**—Hamilton and Carlyle—to page 272.

2. **A First Latin Reader**—Beresford—Blackie & Son. Price 60 cents.

Part II—Selections 12-24 inclusive.

Part III—Selections 3, 4, 7, 8 and 9.

3. The text in grammar should be completed.

Grammatical questions on passages from the prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of easy sentences with the vocabulary based upon the prescribed Caesar in the Latin Reader.

The following are the prescribed texts:—

Ontario High School Latin Reader. (MacMillan Co.) Parts IV and V. Price 40 cents.

4. **Selections from Virgil**—Robertson, Bennett and Glassey. (W. J. Gage & Co.) Lines 1-292 and 360-484. Price 75 cents.

Two papers as follows:—

(a) Caesar, Virgil and Sight (15% of the marks on this paper may be for Sight Translation).

(b) Latin Grammar and Composition.

The following reference books should be read by students, and should be made available for them through the school library. Students are not expected to buy them.

Julius Caesar (Heroes of the Nation's Series)—Fowler. (G. P. Putnam's Sons.)

Virgil (Our Debt to Greece and Rome Series)—Mackail. (Longman's, Green & Co.)

The Age of Fable—Bulfinch. (Everyman's Library).

5. **Grammar and Composition.** In preparation for this paper students will be expected to provide themselves with D'Ooge: *Concise Latin Grammar* (Ginn & Co.). Questions on Grammar will be set involving a knowledge of forms. In Composition sentences will be given for translation, based on the vocabulary of the prescribed prose author and on the following principles of syntax: (a) First Term: the common ease constructions; participles; intransitive verbs; indirect statement; indirect command; indirect question; purpose clauses; result clauses. (b) Second Term: the constructions set down for the First Term; gerund and gerundive; temporal clauses; causal clauses; conditional clauses (regular types); constructions after verbs of *Preventing* and *fearing*; subordinate clauses in indirect narration.

6. **Authors and Sight Translation.** A knowledge of the syntax and subject matter of the Authors read is also required. First Term: (a) **Aulus Gellius**, *Selected Stories*, edited by Nall (Macmillan's Elementary Classics). Selections VI, VIII-XII, XV-XIX, XXI-XXIII, XXVII-XXXII, XXXIV-XXXVI, XXXVIII-XL. (b) **Livy**: Selections 19-33, edited by Lamming (Macmillan's Elementary Classics). Second Term: (a) **Cicero**, *Letters* 1, 2, 3, 5, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 20, 23, 24, in *New Cicero* edited by Bennett (Allyn & Bacon). (b) **Virgil**, *Aeneid* 1, lines 232-756. In addition students will be examined on the contents of *Aeneid* II and III, which are to be read in the verse translation by Rhoades. (Poems of Virgil in English Verse, Oxford Press.)

7, 8. **Authors and Sight Translation.** A knowledge of the syntax and subject matter of the Authors read is also required. Twenty per cent. of the paper will be assigned to Sight Translation. First Term: (a) **Livy**, *Extracts from Livy*, by Lee-Warner and Gardiner (Clarendon Press), pages 47-79. (b) **Catullus**, edited by Macmillan (Junior Latin Series, Oxford Press), Nos. 1, 3, 4, 9, 11, 13, 31, 35, 38, 44, 46, 49, 53, 64 (lines 132-250) 70, 73, 84, 85, 93, 96, 101. Second Term: (a) **Cicero**, *Pro Lege Manilia*, edited by King (Oxford Press). (b) **Horace**, *Odes*, Book I, edited by Page (Macmillan's Elementary Classics), Nos. 1-4, 9, 11, 14, 22, 24, 29, 34, 35, 37, 38.

MATHEMATICS

Mathematics I and Mathematics, Grade XII—Courses 1, 2.

Trigonometry—Grade XII, Mathematics IA and IIA—Course 3.

Mathematics II—Courses 4, 5.

1. **Algebra.** Text: *An Intermediate Algebra* by Wilson and Warren, (Oxford University Press).

First Term—Chapter I, Part A, (a review of Parts B and C is recommended), Chapters III, IV, XI (secs. 90, 91, 92).

Second Term—Chapters V (omitting sec. 51), VI, VII (omitting sec. 73), VIII, IX.

2. **Analytic Geometry.** Text: *Analytic Geometry* by Crawley and Evans (University of Pennsylvania, Philadelphia).

First Term—Chapters I, II, III (omitting secs. 26, 29, 32, 37, 38).

Second Term—Chapters IV, V (omitting secs. 60 and 61).

3. **Plane Trigonometry.** Text: Practical Trigonometry by Playne and Fawdry (The Copp, Clark Company).

First Term—Chapters I to V, inclusive.

Second Term—Chapters VI to IX, inclusive.

Students are required to become familiar with the use of tables in the solution of problems, and Logarithmic and Trigonometric Tables by Wentworth and Hill (Ginn & Company) are recommended.

4. **Analytic Geometry.** Text: Analytic Geometry by Crawley and Evans (University of Pennsylvania, Philadelphia).

First Term—Chapter V, secs. 60 and 61, Chapters VI and VII.

Second Term—Chapters VIII, IX, X and XII.

5. **Calculus.** Text: Calculus for beginners, by W. M. Baker (G. Bell and Sons, London.)

First Term—To page 54.

Second Term—Pages 55 to 105, inclusive.

PHYSICS, GRADE XII

Black & Davis: New Practical Physics (Macmillan). Chapters II, III, VII, VIII, IX, X, XI, XII; chapter XV, section 245; chapters XVII, XVIII, XIX, XX, XXI, XXII, XXIII, XXVII, XXVIII, XXIX, XXXI.

EXPERIMENTS

(To be performed by the pupils)

1. The determination of the co-efficient of friction on: (1) A horizontal surface, (2) on an inclined surface.

2. Determine the efficiency, mechanical advantage and velocity ratio of one of the following: (1) differential pulley, (2) jackscrew, (3) wheel and axle, (4) a given system of pulleys.

3. Determine the brake horsepower of a small electric motor or water motor.

4. The relation between the force acting on an elastic body and the displacement produced (Hooke's Law).

5. To determine the resultant of two forces acting at a point, and the condition under which three forces acting at a point can be in equilibrium.

6. To determine the laws of the pendulum and the acceleration due to gravity.

7. To determine the coefficient of linear expansion of a metal rod.

8. The relation between the volume and temperature of a given mass of gas at constant pressure.

9. The relation between the pressure and temperature of a given mass of gas at constant volume.

10. A study of the phenomena of static electricity:

(1) Determine the nature of the charge when various bodies are rubbed together.

(2) Charge an electroscope positively also negatively by temporary induction and then by permanent induction.

(3) Charge two bodies simultaneously by induction.

(4) To show that the amount of the positive charge and the amount of the negative charge induced by a charged body are each equal to the inducing charge.

(5) To show that a charge is on the outside surface of a conductor. To determine how the length, diameter and material of a wire affects its resistance.

11. To show the effect on the E.M.F. of series and of parallel arrangement of cells.
12. To electroplate a given body with copper; and the study of the storage battery.
13. Determine the principles of induced currents and self-induction.
14. A study of the direct current generator and of the direct current motor.
15. Determine the focal length of a concave mirror and the characteristics of the images formed by it.
16. Determine the focal length of a convex mirror and the characteristics of the images formed by it.
17. Trace a ray of light through: (1) a rectangular block of glass; (2) a triangular prism of plate glass, and determine the index of refraction in each case.
18. Determine the critical angle for glass, and from this the index of refraction.
19. Determine the focal length of a concave lens and the characteristics of images formed by it.
20. Construct a simple astronomical telescope and measure its magnifying power.
21. Construct a compound microscope and measure its magnifying power.
22. Construct an opera glass and measure its magnifying power.
23. Make a study of the dispersion of sunlight by: (1) looking through a prism at a slit through which sunlight is passing; (2) by observing through a prism the colored fringes about the edges of opaque objects held against a bright background. (Use simple prism or spectroscope.)
24. Make a study of: (1) Bright line spectrum; (2) Absorption spectrum; (3) Dark line solar spectrum. (Use simple prism or spectroscope.)

PSYCHOLOGY

Introductory Psychology—Courses 1, 2.

Social Psychology—Courses 3, 4.

1, 2. Textbook: Norsworthy and Whitley's *The Psychology of Childhood*. A course in introductory general psychology with emphasis upon the educational applications of psychological laws. The main facts of human behaviour will be surveyed beginning with the innate mental equipment of the human individual and going on to consider the various ways by which these tendencies are modified and developed through the processes of learning. Special attention will be paid to the growth of mental powers in childhood and the educational corollaries to be drawn from these facts. To students who complete this course, the Department of Education will also grant credit in Psychology of the First Class Professional extra-mural course.

3, 4. **Social Psychology**. First Term: M. Ginsberg's *Psychology of Society*. Second Term: Wright's *Moral Standards of Democracy*.

POLITICAL ECONOMY III AND SOCIOLOGY III

Classes in one of the above subjects will be offered at the next session of the Summer School if a sufficient number of applications are received before April 1st, 1932. Applicants should indicate which of the two classes is desired and should state whether or not the applicant would enrol in the other class if his choice were not offered. The subject offered will be scheduled for 10.30 and 11.30 each morning.

SCIENCES (Pre-Medical Course)

The Manitoba Summer School will offer instruction in Physics IIM, Zoology IIM, and Chemistry IIM at the 1932 session of the School should a sufficient demand arise. The classes will be held in the University laboratories on Broadway Avenue, Winnipeg, will begin on May 19th, and will continue for six weeks. Information regarding fees, hours of instruction, etc., will be forwarded upon application.

ART

Course I—This course is offered to teachers of Grades VI, VII, VIII and IX, though teachers of any grade could profit by the instruction.

Subject matter: (a) The teaching of drawing and painting; (b) Teaching of perspective; (c) Picture study in the higher grades.

Course II—This course is cultural; in subject matter it is much more advanced than that of Course I. Those who later expect opportunity for travel or study will find the course to be the best preparation.

Subject Matter: (a) A short course in the History of Art; (b) Picture study continued giving more detailed knowledge of the Masters and their work.

MUSIC

A course in School Methods will be given, special emphasis being placed upon the following phases:

1. **Choral Methods.** Consisting of (a) Voice training, (b) Diction training, (c) Detailed study of songs for public performance, (d) Interpretation in song, (e) Conducting, (f) The training of boys.

2. **Theory.** Consisting of the work outlined for Grades VII and VIII. (a) Musical notation, (b) Scale building, signatures, etc., (c) Ear training and music diction.

3. **Music Appreciation.** With special reference to the courses outlined for Grades VII and VIII.

SPECIAL COURSE IN MATHEMATICS

The Summer School will conduct a special class in Mathematics, as prescribed by the new Programme of Studies for Grades VII, VIII and IX. If sufficient applications are received the Committee will arrange to provide this course at the 1932 session. Successful students will be given credit for Mathematics of the First Class Professional Course.

Applications must be received at the office of the Secretary not later than February 1st. The fee will be \$7.00.

SPEECH ARTS

A—Voice Culture

Vocal Technique—Physiology of the Vocal Apparatus; Principles of Voice Production and Breath Control; Defective Speech.

Diction—Enunciation, Pronunciation, Expressive Voice—Interpretation of Prose and Poetry.

B—Story Telling

Interpretation of stories; selection of material, Bibliography.

C—Dramatic Art

Study of One Act Plays; Impersonation; Character Study and Interpretation; Play Production; Directing the Play; Stage Management; Rehearsals; Setting; Lighting; Costuming; Make-up.

Lectures—The Value of Voice Culture; Story Telling as an Art; Through Literature to Life; Amateur Theatricals.



BATHING BEACH AT THE MANITOBA SUMMER SCHOOL

MASTER OF ARTS IN EDUCATION

The Council of the University has recently established the degree of Master of Arts in Education, accepting the offer made by the Committee of the Manitoba Summer School to provide instruction in certain courses in the Philosophy and History of Education and in Educational Administration and to supervise educational Research.

The following are the requirements for the degree of Master of Arts in Education:

1. To be accepted as a candidate for the degree of Master of Arts in Education an applicant must have the following qualifications: (a) He must hold the degree of Bachelor of Arts of the University of Manitoba or possess such qualifications as the Committee on Post-Graduate Studies of the General Faculty Council may deem to be equivalent to this degree. (b) He must hold a First Class Professional Teacher's Certificate of the Province of Manitoba or its equivalent as determined by the Department of Education, and must have had a minimum of one year's attendance at an approved normal school*. (c) He must have had at least two years' teaching experience.

2. Application for admission to candidacy for the degree shall be made to the Secretary of the Committee on Post-Graduate Studies of the University of Manitoba and shall be accompanied by a recommendation from its Sub-Committee on Education, covering major and minor courses, and where possible, a thesis subject prepared along the lines set out in 4 below.

3. Candidates for the degree of Master of Arts in Education shall be required to complete eight graduate courses in Education. Courses 1, 2, 3, 4 and 5 (Group I) shall be compulsory for all candidates and shall be designated as the major. Three additional courses, two from Group II and one from Group III shall be selected by the candidate, subject to the approval of the Committee and shall be designated as the minor.

COURSES LEADING TO THE DEGREES OF MASTER OF ARTS IN EDUCATION

Course

Group I

1. School Surveys and Methods of Educational Research.
2. Statistical Methods Applied to Education.
3. General History of Education.
4. Psychology of Elementary and Secondary Education.
5. Mental and Achievement Tests.

Group II

6. Problems of Educational Administration and Finance.
7. Problems of Teacher Training and Supervision.
8. Problems of Secondary School Organization and Administration.
9. Curriculum Construction.

Group III

10. Special Methods of Instruction in English.
11. Special Methods of Instruction in the Foreign Languages.
12. Special Methods of Instruction in History and Civics.
13. Special Methods of Instruction in Mathematics.
14. Special Methods of Instruction in the Biological or in the Physical Sciences.
15. Problems in Reading and in the Use of the School Library.
16. Health and Physical Education.

(N.B.—As a prerequisite to enrolment in the courses in Special Methods in Group III, the Sub-Committee on Education will demand some special academic qualifications in the subject or subjects involved, looking eventually to the prescription of the Honors B.A. or B.Sc. degree or its equivalent.)

*A deficiency in this respect may be overcome by taking an additional course or courses of graduate work for the degree, as recommended by the Sub-Committee on Education and approved by the Committee on Post-Graduate Studies.

4. Candidates must submit a thesis on some topic which has been approved by the instructor in charge of the course from which the subject is chosen and which has been approved by the Sub-Committee on Education. The thesis must be based on an investigation which involves the use of the objective method. It shall be graded for degree credit by the instructor under whose direction it has been prepared and by two other persons appointed by the Committee on Post-Graduate Studies.

5. To complete the course of study for the degree will require at least two years. Work will be conducted both extra-murally and intra-murally under the direction of the Manitoba Summer School. Students may not register in more than four courses during any one year.

6. Candidates for the degree of Master of Arts in Education shall by a final examination, either oral or written, show proficiency in the whole field of their course. This examination shall be held at such times and under such conditions as the Committee on Post-Graduate Studies shall determine. The pass mark for all written examinations and for the thesis shall be the same as for the M.A. in other departments.

LECTURES OFFERED IN EDUCATION AT THE MANITOBA SUMMER SCHOOL

Session of 1932

Provision has been made for instruction in the following courses:

| <i>Course</i> | <i>Lecture Hours</i> |
|--|----------------------|
| 1. School Surveys and Methods of Educational Research ... | 9.30 a.m. |
| 2. Statistical Methods Applied to Education | 8.30 a.m. |
| 4. Psychology of Elementary and Secondary Education..... | 10.30 a.m. |
| 8. Problems of Secondary School Organization and Administration..... | 2.00 p.m. |
| 10. Special Methods of Instruction in English..... | 11.30 a.m. |
| 15. Problems in Reading and in the Use of the School Library | 11.30 a.m. |

Lectures will commence on Wednesday, July thirteenth and continue until Tuesday, August twenty-third, 1932.

Registration with the Summer School

The candidate, upon receipt of notice from the Secretary of the Committee on Post Graduate Studies of the University of Manitoba that his application for admission to the course of study in education has been accepted, may select subjects of study for the year from among those being offered at the following session of the Manitoba Summer School. Registration in these subjects may be made with the Dean of the Summer School at his Office at the University of Manitoba before January 2nd, 1932. The fee for each subject is \$15.00, \$5.00 of which shall be paid at the time of registration for extra-mural study and the remainder at the time of registration for the Summer season.

For further information and advice concerning the courses given during the Summer Session communicate with D. S. Woods, Director of the Manitoba Summer School, 360 Kingston Crescent, St. Vital.

Candidates for admission to the Course in Education leading to the degree of Master of Arts should make application to W. J. Spence, Secretary of the Committee on Post Graduate Studies of the University of Manitoba.

Visiting Students

Visiting students will be admitted to any of the courses in education offered during the Summer Session upon payment of a fee of \$5.00, but students so enrolling should endeavor to master the advance reading prescribed in each course, and will be expected to comply with regulations governing attendance at lectures.

Special Lectures

The Committee has secured the services of Dr. W. F. Dyde of Colorado University, and Dr. Fred Engelhardt of Minnesota University, for the session of 1932.

Dr. Dyde, who was formerly a student at Queen's University, Kingston, Ontario, will lecture for two weeks commencing July 25th on "Problems of Secondary Education with Particular Reference to Canada and the United States."

Dr. Engelhardt will give a series of ten lectures commencing July 18th on "Research in Secondary Education with Special Reference to Teaching Method and Curriculum," also "The Administration and Supervision of Secondary Schools in the United States."

Dr. William Boyd of Glasgow University will lecture during the six weeks' session of 1933, and Dr. Peter Sandiford during the session of 1934.

Method of Directing the Study Programme in Education

This course of study aims to bring those already engaged in the teaching profession or in supervisory or administrative school positions into touch with the latest school practices and results. It also aims to acquaint the student with historical and statistical methods of research in order that he may approach the education problems of his community in a more scientific manner. While one part of the course of study directs attention to the general background of the field of education, the remaining parts are so organized that the student may be brought into touch with what has been attempted in more specific phases of educational endeavor.

Extra-Mural Study

Extra-mural study commences on *January Second, 1932*. Study outlines are provided in those subjects upon which instruction will be given during the following Summer School Session. The student is required to complete the "Minimal reading" before the commencement of the Summer Session, and to forward to the Office of the Dean of Arts and Science of the University of Manitoba such exercises as the instructor may require during the extra-mural term. "Minimal reading" requirements will be forwarded to students upon registration.

The Written Examination

Each course as outlined is based upon "Minimal" and "Reference" reading matter. The "Minimal reading requirement" contains the major part of the subject-matter upon which the written examination is based. Students, unless otherwise directed, should provide themselves with these books, and may purchase same through the University Book Store. "Reference" reading matter may be secured from the Summer School Library.

The Term Report

The student will choose or be assigned one problem from each course of study, make an investigation in the literature available, prepare a typewritten report upon his investigation, and present it at the Office of the Dean of the Summer School, University of Manitoba, not later than November 15th, 1932.

The standing awarded each student in any subject will be based upon extra-mural exercises, the Summer School examination, and the "Term Report."

Graduate Library

A library of 500 volumes has been provided through the courtesy of the Department of Education. This will be enlarged as occasion demands. Reference works in education are available to all enrolled as students in the course in education and to others engaged in special research in the field of education.



RESIDENCE BUILDINGS, MANITOBA AGRICULTURAL COLLEGE

SUMMER SCHOOL STUDENT ORGANIZATIONS, 1931

Social Committee

Chairman, D. S. Woods; Vice-Chairman, Miss Jean Millar; Secretary-Treasurer, J. J. Jackson; Misses M. Insley, Alexander, Dorothy Mudge, M. Elliott, Heller, Ruth Cox, H. Sparrow, Gwen Lane, Barbara Balfour, May Hinchliffe, Margared de Yong, Margaret Hickling, E. Kemp, Peters, Viola Mark, Farenhurst, Forrest, Elias, Ruby Rogers, E. Slaughter, E. Jenkins, R. Fairlie. Messrs. N. McTavish, J. J. Jackson, C. D. Voigt, J. H. Cameron, J. W. Chafe, S. Avren, H. W. Wright, A. S. Bowman, P. R. Stewart, D. Finlay, Mack, J. W. Graham, P. M. Livingstone, M. P. Lutack, S. Brickman, R. Sadler, J. Hughes, M. Henderson, E. I. Fritch, Wm. Gilchrist, W. J. Peden, S. Brown, G. L. Douglas, R. Lobb, Neil McLennan, W. B. Beer.

Ladies' Athletic Committee

Chairman, Jean Millar; Secretary, Anne Elias. Misses Evelyn King, Amy Fellingham, Dorothy Cunningham, Margaret Weightman, Lil Peters, Dorothy Mudge, K. Dunsmore.

Men's Athletic Committee

Chairman, J. W. Graham; Secretary, B. Blanchard. C. Chafe, W. Booth, R. Sadler, N. McTavish, A. Smith, M. Woods, J. Belton, E. J. Fritch, J. H. Cameron, C. Kerr, W. Peden, T. Emerson, J. Delmage, H. Hyson, J. J. Jackson.

Hard-Ball Committee

Chairman, C. Chafe. W. Booth, R. Sadler.

Soft-Ball Committee

Chairman, N. McTavish. A. Smith, J. W. Graham.

Volley Ball Committee

Chairman, M. Woods. J. Belton, E. J. Fritch.

Lawn Bowling Committee

Chairman, J. H. Cameron. C. Kerr, J. J. Jackson.

Football Committee

Chairman, W. Peden. T. Emerson, B. Blanchard, Mr. Delmage, Mr. Hyson.

Tennis Committee

Chairman, Jack Hughes; Secretary, Hilda Sparrow. May Hinchliffe, Viola Mark, Leslie Fox, George Belton, Mr. Robson, Mr. Thornilaw, M.A.C. Faculty.

Sunday Service Committee

Chairman, W. B. Beer. Ardath Merryweather, Ruth Fairley, Bruce Day, George Douglas, Thomas Emmerson.

Re-Union Dance Committee

Chairman, Clarence Kerr; Secretary, Miss D. Mudge; L. Smith, Jean Millar, Miss E. Pearse, Messrs. E. Fritch, W. Graham, J. J. Jackson, D. S. Woods, W. Tier (Dean), H. J. Russell, B. J. Hales.

FEES

The following fees are required, and must be paid on or before July 4th, 1932, the final day for registration. The academic fee herein set down includes tuition, examination and laboratory privileges. Part subjects will be charged in proportion.

| | |
|---|---------|
| Student Organizations..... | \$ 2.00 |
| University Registration (charged all students writing on University of Manitoba examinations for the first time)..... | 2.00 |
| Astronomy..... | 10.00 |
| Botany..... | 15.00 |
| Drawing and Art (either course)..... | 10.00 |
| First Class Professional, per subject..... | 7.00 |
| Music..... | 10.00 |
| Primary Methods..... | 10.00 |
| Senior Public School Methods..... | 10.00 |
| Speech Arts (each course)..... | 10.00 |
| Social Psychology..... | 10.00 |
| Teaching of Science..... | 10.00 |
| Trigonometry..... | 10.00 |
| All other subjects, each..... | 20.00 |
| Master of Arts Course (per subject)..... | 15.00 |

TOTAL ENROLMENT AT MANITOBA SUMMER SCHOOL, 1931

| | | |
|------------------|-----|------|
| Women.. | 506 | |
| Men .. | 448 | |
| | | 954 |
| Winter Classes.. | | 55 |
| | | 1009 |

Home Address of Summer Students

| | | |
|-----------------------------------|-----|-----|
| Winnipeg and Suburbans | 470 | |
| Rural Manitoba | 422 | |
| Saskatchewan | 48 | |
| Ontario | 9 | |
| New Brunswick | 1 | |
| Alberta | 2 | |
| United States | 2 | |
| | | 954 |
| Number of Women in Residence..... | 285 | |
| Number of Men in Residence..... | 182 | |
| | | 467 |
| Non-Resident Women..... | 221 | |
| Non-Resident Men | 266 | |
| | | 487 |

Students Taking High School and Methods Courses

| | | |
|--|-----|-----|
| Teachers taking Grade XII | 142 | |
| Teachers taking Elementary School Methods | 125 | |
| Teachers taking First Class Professional | 197 | |
| | | 464 |
| High School Students taking Grade XII | 64 | 64 |

Students Taking University Courses and Grade "A"

| | | |
|---|-----|-----|
| Teachers | 139 | |
| Regular University Students | 320 | |
| Students taking Graduate Work in Education | 38 | |
| | | 497 |

ENROLMENT BY SUBJECTS, 1931

| | |
|-----------------------------------|---------|
| Teaching of History.. | 43 |
| History of Education | 71 |
| Tests and Measurements. | 72 |
| Philosophy of Education. | 57 |
| Progressive Methods... | 80 |
| Teaching of English.... | 48 |
| Principles of Secondary Education | 46 |
| Introductory Psychology.. | 74 |
| Methods in Mathematics.. | 11 |
| Methods in Science.. | 14 |
| Speech Arts..... | 14 |
| Senior Public School Methods.. | 32 |
| Primary Methods .. | 53 |
| Art..... | 24 |
| M.A. Education. | 70 |
| Music..... | 27 |
| Astronomy II. | 38 |
| Botany II..... | 14 |
| Chemistry XII and I | 109 |
| Physics XII and I.... | 75 |
| English XII and I.. | 51 |
| English II, Prose.. | 67 |
| English II, Verse.. | 54 |
| English III | 64 |
| English IV.. | 49 |
| French Elementary... | 7 |
| French Grade XI.. | 16 |
| French Grammar, XII and I. | 42 |
| French Authors, XII and I. | 31 |
| French II, Practice..... | 33 |
| French II, Authors..... | 74 |
| German IA..... | 31 |
| History, XII and II. | 9 |
| History III..... | 29 |
| History IV.. | 15 |
| Latin XI..... | 13 |
| Latin XII and I, Prose.. | 18 |
| Latin XII and I, Authors.. | 12 |
| Algebra, XII and I..... | 48 |
| Geometry, XII and I..... | 57 |
| Geometry II..... | 23 |
| Calculus II..... | 23 |
| Trigonometry, XII and I.. | 50 |
| Social Psychology III. | 11 |
| Chemistry IIM. | 22 |
| Physics IIM..... | 13 |
| Zoology IIM..... | 17 |
| Engineering Mechanics... | 19 |
| Engineering Calculus..... | 16 |
| Engineering Algebra..... | 18 |
| | - 1,881 |

Students applying for Summer School Courses are required to complete
this application form.

MANITOBA SUMMER SCHOOL

1 9 3 2

PRELIMINARY APPLICATION FORM

Name in full.....

Address.....

Professional Standing.....

Non-Prof. Standing

Present University Standing (if any) and when obtained

If from another Province, state which.....

State here the courses you are applying to take in 1932.

Do you desire University or Departmental credit for these courses?

Do you wish to reside at the College?.....

If not in residence do you wish mid-day lunch in the

College dining room?.....

Date.....Signature

